

The Path to 80% Reductions by 2050.

Low Emissions Community Actions Summary

Action		Cumulative Emissions Reductions 2020-2050 (tonnes CO ₂ e)	Municipal Action (M) Community Action (C)	Action Phase
Buildings & Energy Efficiency				
1	Apply energy efficiency standards (build to Passive House) to all new municipal buildings.	28,000	M	P2
2	Perform deep energy retrofits on municipal buildings.	175,000	M	P2
3	Upgrade plugged appliances and energy conservation behaviours in municipal buildings.	4,000	M	P2
4	Update all municipal building lighting systems.	5,000	M	P1
5	Retrofit municipal heating and cooling systems with ground-source or air source heat pumps.	204,000	M	P2
6	Create an electric and thermal energy consumption cap for new home construction by utilizing a municipal step code.	1,130,000	C	P2
7	Require new homes to include roof solar Photovoltaic (PV) installations in the final year of a municipal step code.	5,049,000	C	P4
8	Create an electric and thermal energy consumption cap for new ICI construction by utilizing a municipal step code.	6,660,000	C	P2
9	Require new ICI buildings to include roof solar PV installations. In the final year of a municipal step code.	28,000	C	P4
10	Incentivize and later mandate homeowners to perform deep energy retrofits.	2,013,000	C	P2
11	Incentivize and later mandate ICI owners and operators to perform deep energy retrofits.	3,469,000	C	P2
12	Require energy efficiency improvements residential and ICI building lighting systems.	147,000	C	P3
13	Incentivize and later mandate homeowners to upgrade household appliances to energy and water efficient models	582,000	C	P4
14	Retrofit home heating and cooling systems with ground-source or air source heat pumps.	2,120,000	C	P3
15	Retrofit ICI heating and cooling systems with ground-source or air source heat pumps.	658,000	C	P3
16	Increase the efficiency of industrial processes.	232,000	C	P4

Action Implementation Timeline Legend	
P1	Phase 1 Projects: Action is already in planning or drafted strategy phase
P2	Phase 2 Projects: Action planning and implementation to be started in the next 4 years
P3	Phase 3 Projects: Action planning and implementation to be started in the next 5-8 years
P4	Phase 4 Projects: Action planning and implementation to be started in the next 12+ years

Transportation				
17	Electrify the Municipal fleet over the near-term.	77,000	M	P2
18	Electrify the Municipal transit fleet.	55,000	M	P2
19	Implement a vehicle pollution pricing program in high traffic areas.	698,000	M	P3
20	Increase transit routes and frequency through future updates to the Transit Plan.	942,000	M	P1
21	Electrify personal vehicles through incentive programs, education, and automotive dealer partnerships	2,756,000	C	P2
22	Electrify commercial vehicles through incentive programs, education, and automotive dealer partnerships	6,860,000	C	P3
23	Fund and implement improved cycling and walking infrastructure to encourage active transportation.	287,000	M	P1
Waste				
24	Improve and expand waste management programs and services to increase reduction and diversion.	1,303,000	M	P2
Water Conservation				
25	Decrease water use through efficiency, monitoring, and leak reduction.	25,000	M	P2
26	Reduce residential and ICI water use through education programming and water efficiency incentive programs.	147,000	C	P2
Land Use				
27	Build complete, compact communities through infill development, mixed-use buildings, and compact housing.	3,353,000	M	P4
28	Focus development on densification in previously developed areas, increasing the number of multi-family buildings.	Included in #27	M	P4
Energy Generation				
29	Install solar PV systems on municipal buildings.	236,000	M	P2
30	Install solar PV systems on municipal lands	Included in #34	M	P2
31	Increase Landfill Gas Capture from the Saskatoon Landfill	1,891,000	M	P2
32	Encourage existing residential building owners and mandate new buildings to install solar PV system through programming and bylaw.	195,000	C	P2
33	Encourage existing ICI building owners and mandate new buildings to install solar PV systems through programming and bylaw.	1,147,000	C	P3

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34	Install new solar PV utility-scale facilities within or adjacent to city boundaries. With areas within city boundary to be prioritized first.	1,626,000	M	P2
35	Install a CHP facility at St. Paul's Hospital.	40,000	M	P2
36	Implement district energy systems in the downtown and north downtown areas.	1,079,000	M	P4
37	Construct a hydropower plant at the weir.	218,000	M	P3
38	Install renewable energy storage over time.	3,435,000	M	P2
39	Procure renewable electricity from third party producers.	54,119,000	M	P4
40	Procure Renewable Natural Gas from third party producers.	40,607,000	M	P4

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